CLAIM AMENDMENTS

- 1. (Currently Amended) A method for treating a subject suffering from cancer, said method comprising the step of: administering to a subject a therapeutically effective amount of a <u>replication competent</u> herpes simplex virus (HSV) comprising a nucleic acid sequence encoding for an agent selected from the group consisting of interleukin-12, granulocyte macrophage colony stimulating factor, and cytosine deaminase such that an anticancer response is induced in the subject.
- 2. (Original) A method according to claim 1, wherein said administering step comprises intratumorally disposing the HSVinto the subject.
- 3. (Original) A method according to claim 1, wherein the HSV vector is substantially aneurovirulent.
 - 4. (Canceled)
- 5. (Original) A method according to claim 3, wherein the HSV vector comprises a deletion of the γ_1 34.5 gene.
- 6. (Original) A method according to claim 5, wherein IL-12 genes are inserted within the $\gamma_1 34.5$ gene deletion.
- 7. (Original) A method according to claim 6, wherein the IL-12 genes comprise subunits p35 and p40 separated by an IRES sequence.

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8. (Original) A method according to claim 7, wherein said IL-12 encoding nucleic acid sequence bicistronically expresses the p35 and p40 subunits to produce self-assembling, heterodimeric IL-12 in the HSV vector.

9. (Currently Amended) An anti-tumor pharmaceutical composition comprising a replication competent herpes simplex virus (HSV) vector comprising a nucleic acid sequence encoding for a compound selected from the group consisting of IL-12, GM-CSF, and CD operatively linked to a promoter, and a pharmaceutically acceptable carrier.

10. (Original) A pharmaceutical composition according to claim 9, wherein said HSV vector is substantially aneurovirulent.

11. (Canceled)

- 12. (Currently Amended) A pharmaceutical composition according to claim 9, wherein said HSV vector has been transformed with an expression cassette comprising nucleic acid sequences encoding for the p40 and p35 <u>subunits</u> of IL-12, said subunits being separated from each other by an IRES encoding sequence.
- 13. (Original) A pharmaceutical composition according to claim 12, wherein said HSV vector includes a deletion of the γ_1 34.5 gene.

- 14. (Original) A pharmaceutical composition according to claim 9, wherein the expression of the nucleic acid sequence encoding for IL-12 results in constitutive production of IL-12 in vivo.
- 15. (Original) A pharmaceutical composition according to claim 9 which has been formulated for injection.
- 16. (New) A pharmaceutical composition according to claim 9, wherein the promoter is a mammalian promoter.
- 17. (New) An anti-tumor pharmaceutical composition comprising a herpes simplex virus vector comprising a nucleic acid sequence encoding cytosine deaminase operatively linked to a promoter, and a pharmaceutically acceptable carrier.
- 18. (New) A pharmaceutical composition according to claim 17, wherein said HSV vector is substantially aneurovirulent.
- 19. (New) A pharmaceutical composition according to claim 17, wherein said HSV vector is replication competent.
- 20. (New) A pharmaceutical composition according to claim 17, wherein the vector comprises a deletion of the $\gamma_1 34.5$ gene.

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- 21. (New) A pharmaceutical composition according to claim 17, wherein the sequence is inserted within the γ_1 34.5 gene deletion.
- 22. (New) A pharmaceutical composition according to claim 17, wherein the expression of the nucleic acid sequence encoding cytosine deaminase results in constitutive production of cytosine deaminase in vivo.
- 23. (New) A pharmaceutical composition according to claim 17, wherein the promoter is a mammalian promoter.